

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/IB 98/00212

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>																						
Int Cl <sup>6</sup> : C12Q 1/68																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
<b>B. FIELDS SEARCHED</b>																						
Minimum documentation searched (classification system followed by classification symbols) C12Q 1/68																						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT and CAS online: Plasmodium and (mitochondria or extrachromosom? or extra()chormosomal or Plastid) DNA sequences 1-12 and Figures 9 and 10: Swiss Prot, Genbank, EMBL, PIR.																						
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																				
X	M.J. Gardner et al. "Organisation and expression of small subunit ribosomal RNA genes encoded by a 35-kilobase circular DNA in Plasmodium falciparum." Molecular and Biochemical Parasitology Pages 77-88 Volume 48 1991	1-36, 39-59																				
X	Whole document Figure 3 is relevant to Sequence 1	37, 38																				
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input type="checkbox"/> See patent family annex																						
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E"</td> <td>earlier document but published on or after the international filing date</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E"	earlier document but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	"P"	document published prior to the international filing date but later than the priority date claimed		
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"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art																			
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family																			
"P"	document published prior to the international filing date but later than the priority date claimed																					
Date of the actual completion of the international search 31 March 1998		Date of mailing of the international search report 21 APR 1998																				
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929		Authorized officer  ALBERT S. J. YONG Telephone No.: (02) 6283 2160																				

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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	M.J. Gardner et al. "A circular DNA in malaria parasites encodes an RNA polymerase like that of prokaryotes and chloroplasts." Molecular and Biochemical Parasitology Pages 115-123 Volume 44 1991 Whole document	1-36, 39-59 37, 38
X	Figure 2 is relevant to Sequence 1.	
X	M.J. Gardner et. al. "Sequence an Organization of large subunit rRNA genes from the extrachromosomal 35 kb circular DNA of the malaria parasite Plasmodium falciparum." Nucleic Acids Research pages 1067-1071 Volume 21 1993 Whole document	1-36, 39-59 37, 38
X	Figure 3 is relevant to Sequence 1	
X	M. J. Gardrier et. al. "Nine duplicated tRNA genes on the plastid-like DNA of the malaria parasite Plasmodium falciparum." Gene pages 307-308 Volume 140 1994 & EMBL Accession No. x 75545 eg bases 653-832 Whole document	1-36, 39-59 37, 38
X	x75545 is relevant to Sequence 1.	
X	R.J.M. Wilson et. al. "Complete Gene Map of the Plastid-like DNA of the Malaria Parasite Plasmodium falciparum." Journal of Molecular Biology pages 155-172 Volume 261 1996 & EMBL Accession No. x952754 and x95276 Whole Document	1-36, 39-59 37, 38
X	x95275 & x95276 is relevant to Sequences 1&3.	
X	D.H. Williamson et. al. "The evolutionary origin of the 35 kb circular DNA of Plasmodium falciparum: New evidence supports a possible rhodophyte ancestry" Whole document	1-36, 39-59 37, 38
X	Figure 2 is relevant to Sequences 1&2.	
X	M.J. Gardner et. al. "Phylogenetic analysis of the ropB gene from the plastid-like DNA of Plasmodium falciparum". Molecular and Biochemical Parasitology. pages 221-231 Volume 66 1994 Whole document	1-36, 39-59 37, 38
X	Figure 2 is relevant to Sequences 1&2.	

# INTERNATIONAL SEARCH REPORT

AUSTRALIAN PATENT OFFICE  
SEARCH REPORT

Application No.  
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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	P. Preiser et. al. "tRNA genes transcribed from the plastid-like DNA of Plasmodium falciparum" Nucleic Acids Research pages 4329-4336 Volume 23 1995 & EMBL Accession Nos. X90351 - X90354.	1-36, 39-59 37, 38
X	Whole document X90351 - X90354 is relevant to Sequences 2 & 3	
X	A.B. Vaidya et. al. "Sequences similar to genes for two mitochondrial proteins and portions of ribosomal RNA in tandemly arrayed 6-kilobase-pair DNA of a malarial parasite". Molecular and Biochemical Parasitology	1-36, 39-59 37, 38
X	Whole Document Figure 1 is relevant to Figures 9&10	
X	J.M. Feagin. "Homologies between the contiguous and fragmented rRNAs of the two Plasmodium falciparum extrachromosomal DNA's are limited to core sequences". Nucleic Acids Research pages 879-887 Volume 20 1992 & Gen Bank Accession No. M7661	1-36, 39-59 37, 38
X	Whole document M76611 is relevant to Figures 9&10	